CLAIMS

15

25

- 1. A communication apparatus comprising:
- a first modulation section that modulates first transmit data and obtains a first modulated signal;
- a second modulation section that modulates second transmit data and obtains a second modulated signal;
 - a first antenna that transmits said first modulated signal; and
- a second antenna that transmits said second 10 modulated signal;

wherein at least one modulation section of said first modulation section and said second modulation section modulates said transmit data, changing a mode of signal point arrangement in a time direction or in a frequency direction.

The communication apparatus according to claim 1, wherein:

said first modulation section forms said first 20 modulated signal by modulating identical data of said first transmit data a plurality of times, changing a mode of signal point arrangement; and

said second modulation section forms said second modulated signal by modulating said second transmit data without changing a mode of signal point arrangement.

3. The communication apparatus according to claim 2,

wherein said first modulation section forms modulated signals with an identical modulation method and having a mutual phase difference from identical data as said first modulated signal.

5

4. The communication apparatus according to claim 3, wherein said first modulation section forms QPSK modulated signals having a mutual 45° phase difference from identical data as said first modulated signal.

10

5. The communication apparatus according to claim 3 or claim 4, wherein said first modulation section comprises:

a mapping section that maps said first transmit data

15 at a signal point position of a predetermined modulation method; and

a phase rotation section that rotates a phase of a mapped signal point through an angle in accordance with a number of times of transmission of said identical data.

20

- 6. The communication apparatus according to claim 1, further comprising an interleaver that interleaves said first and/or said second transmit data;
- wherein said first and/or said second modulation

 25 section modulates data after interleaving, changing a

 mode of signal point arrangement in a time direction or

 in a frequency direction.

7. The communication apparatus according to claim 1, further comprising a receiving section that receives feedback information indicating a reception state of said first and/or said second modulated signal from a communicating party;

wherein said first and/or said second modulation section changes a mode of signal point arrangement based on said feedback information.

10

15

8. A communication method wherein, in transmitting a first modulated signal from a first antenna and transmitting a second modulated signal from a second antenna, a mode of signal point arrangement of either a first modulated signal or a second modulated signal, or both a first modulated signal and a second modulated signal, is changed in a time direction or in a frequency direction.